

ANDREW B. WALLACE, Ph.D.

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PROFESSIONAL EXPERIENCE

ANGELO STATE UNIVERSITY, San Angelo, TX **1989-Present**

Professor and Dean of the Freshman College (2012-present)

Professor and Head of Physics Department (2004-2011)

Associate Professor and Head of Physics Department (1998-2004)

Manage 9 professors and 1 staff to over 2000 students. Full responsibility for instruction and grading of first and second year calculus based physics lectures, general physics lectures/laboratories, and advanced courses as needed. Half-time administrative duties include scheduling, student advising, degree plans, budgets, mentoring, hiring, evaluations, and recruiting. Key accomplishments include:

- Nationally recognized physics program, and the only one in Texas
- Air Force ROTC Distinguished Educator Award

EDUCATION

Ph.D., Physics, University of North Texas, Denton, TX

Dissertation topic: Quantum wells with internal and external fields.

M.S., Physics, University of North Texas, Denton, TX

B.S., Electrical-Electronic Engineering, Texas Tech University, Lubbock, TX

Graduated *cum laude*

MEMBERSHIPS

- American Association of Physics Teachers
- Science Teachers Association of Texas
- Sigma Pi Sigma
- Society of Physics Students

RESEARCH EXPERIENCE

- Netsafe Technology Project, Provisional Patent, pending submission by Texas Tech Office of Research, Commercialization & Federal Relations (2012)
- Physics Teacher Quality, Teacher Quality Grant, Texas Higher Education Coordinating Board (2009-2012)
- Physics Teacher Quality, Teacher Quality Grant, Texas Higher Education Coordinating Board (2008)
- Physics and Principles of Technology, Teacher Quality Grant, UT Dana Center (2007)
- Security Audit, MyMail Technologies, Angelo State University. Advanced architecture and algorithms for MyMail Technologies secure-encrypted email solution for everyone. (2007)
- Technology Development Grant, Introductory Physics, Angelo State University. The technology rich curriculum used in the introductory physics sequence was updated to include a new sequence of content and multimedia instruction. (2006)
- IPC/TEKS: Learning Experiences with Meaningful Applications, Teacher Quality Grant B program, Texas Higher Education Coordinating Board. Science teachers in Region XV were provided 130 hours of professional development through an intense summer institute and several academic year sessions. (2004)

- Preparing Tomorrow's Teachers to use Technology (PT3) Grant, Inquiry-based Physics for Pre-service Science Teachers, Angelo State University. Site visits to regional high school classrooms coupled with interviews led to curriculum changes in the Secondary Certification program. (2002)

WORKSHOPS AND PRESENTATIONS

- "Hands-on Electricity and Magnetism", Conference for the Advancement of Science Teaching, Dallas, November 2011.
- "Hands-on Electricity and Magnetism", Conference for the Advancement of Science Teaching, Houston, October 2010.
- "Hands-on Force and Motion", Conference for the Advancement of Science Teaching, Galveston, November 2009.
- "Hands-on Electricity and Magnetism", Conference for the Advancement of Science Teaching, Ft. Worth, November 2008.
- "Inquiry-based Physics for Pre-service Science Teachers", Concho Valley Regional Technology Conference, San Angelo, November 2003.
- "Inquiry-based Physics for Pre-service Science Teachers", National Meeting of the American Association of Physics Teachers, Madison, August 2003.
- "Inquiry-Based Physics", National Meeting of the American Association of Physics Teachers, San Diego, January 2001.

SERVICE

- SACS Compliance Library Committee Chair, 2011-2013
- Faculty Assessment Committee, 2011-present
- Vice President, Texas Section of the American Association of Physics Teachers 2011-12
- University Budget Task Force 2011-2012
- SACS Compliance Certification Steering Committee, 2011-2013
- Acting Department Head, Computer Science, Fall 2010
- Executive Steering Group, Center for Security Studies
- Academic Master Plan Committee Chair, 2009
- Air quality monitoring for San Angelo through Radnet, 2009-present
- Department of Physics Program Review, Metro State College Denver, 2009
- Building Manager and Emergency Coordinator NIMS/ICS, 2008-present
- Classroom Enhancement and Innovation Committee, 2008-present
- Texas College Readiness-CCRI, 2008-present
- Texas College Readiness Standards-Science Committee, 2006-2008
- Student Government Association Sponsor, 2003-2009
- Spin-UP TYC Committee, Green River Community College 2003
- President, Region I Alpha Chi, 2000-2002
- Academic Master Plan, 1999-2000
- Student Services Committee, 1999-2001
- Vice President, Region I Alpha Chi, 1998-2000

CREDENTIALS

References furnished upon request.